

## CLAIMS

I Claim:

1. A dental implant for implanting within a human jawbone, the jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end and a coronal end;

an abutment having a lower portion for connection with the coronal end of said body;

said body having a length defined between said ends on said outer surface; and

said coronal end being contoured such that when positioned within the jawbone said length is greatest in at least one dimension within the generally lingual one third and shortest on the generally buccal side of said implant body.

2. A dental implant for implanting within a human jawbone, the jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end and a coronal end;

an abutment having a lower portion for connection with the coronal end of said body;

said body having a length defined between said ends on said outer surface; and

said coronal end being contoured such that when positioned within the jawbone said length is greatest in at least one dimension within the generally lingual one third, equally greatest in at least one dimension within the mesial and distal middle one third and shortest on the generally buccal side of said implant body.

3. A dental implant having a generally lingual one third, a generally mesial and distal middle one third, and a generally buccal one third for implanting within a human jawbone, the jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end and a coronal end;

an abutment having a lower portion for connection with the coronal end of said body;

said body having a length defined between said ends on said outer surface; and

said coronal end being contoured such that when positioned within said jawbone said length is greatest in at least one dimension within the generally lingual one third and shortest on the generally buccal side of said implant body.

4. A dental implant having a generally lingual one third, a generally mesial and distal middle one third, and a generally buccal one third for implanting within a human jawbone, the jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end and a coronal end;

an abutment having a lower portion for connection with the coronal end of said body;

said body having a length defined between said ends on said outer surface; and

said coronal end being contoured such that when positioned within said jawbone said length is greatest in at least one dimension within the generally lingual one third, equally greatest in at least one dimension within the mesial and distal middle one third and shortest on the generally buccal side of said implant body.

5. A dental implant for implanting within the human jawbone, the jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end, and a coronal end;

an abutment having a lower portion for connection with the coronal end of said body;

said body having a bone engaging surface defined between said ends; and

said coronal end being contoured such that when positioned within the jawbone said textured or otherwise prepared bone engaging surface is greatest in at least one dimension within the generally lingual third and shortest on the generally buccal third of said body.

6. A dental implant for implanting within the human jawbone, the jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end, and a coronal end;

an abutment having a lower portion for connection with the coronal end of said body;

said body having a bone engaging surface defined between said ends; and

said coronal end being contoured such that when positioned within the jawbone said textured or otherwise prepared bone engaging surface is greatest in at least one dimension within the generally lingual third, equally greatest in at least one dimension within the mesial and distal middle one third and shortest on the generally buccal side of said implant body.

7. A dental implant having a generally lingual one third, a generally mesial and distal middle one third, and a generally buccal one third for implanting within a human jawbone, the jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end and a coronal end;

said body having a length defined between said ends on said outer surface; and

said coronal end being contoured such that when positioned within said jawbone said length is greatest in at least one dimension within the generally lingual one third and shortest on the generally buccal side of said implant body.

8. A dental implant having a generally lingual one third, a generally mesial and distal middle one third, and a generally buccal one third for implanting within a human jawbone, the jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end and a coronal end;

said body having a length defined between said ends on said outer surface; and

said coronal end being contoured such that when positioned within said jawbone said length is greatest in at least one dimension within the generally lingual one third, equally greatest in at least one dimension within the mesial and distal middle one third and shortest on the generally buccal side of said implant body.

9. A dental implant as defined in any of claims 1-8 , wherein said body includes at least one size of grooves around said diameter on at least one portion of said body.

10. A dental implant as defined in any of claims 1-8 , wherein said body includes at least one size of ridges around said diameter on at least one portion of said body.

11. A dental implant as defined in any of claims 1-8 , wherein said body includes at least one size of threads around said diameter on at least one portion of said body.
12. A dental implant as defined in claim 9, wherein said grooves are parallel with and generally adjacent to the contour of said coronal end.
13. A dental implant as defined in claim 10, wherein said ridges are parallel with and generally adjacent to the contour of said coronal end.
14. A dental implant as defined in claim 11, wherein said threads are parallel with and generally adjacent to the contour of said coronal end.
15. A dental implant as defined in claim 9, wherein said grooves are perpendicular to the long axis of the implant body of said coronal end.
16. A dental implant as defined in claim 10, wherein said ridges are perpendicular to the long axis of the implant body of said coronal end.
17. A dental implant as defined in claim 11, wherein said threads are perpendicular to the long axis of the implant body of said coronal end.
18. A dental implant as defined in claims 11 or 17, wherein said threads on said coronal part of the implant body have multiple leading starting points to allow synchronization with larger apical threads of said implant body.

19. A dental implant as defined in any of claims 1- 6, wherein said implant abutment extends coronally with off axis angulation.
20. A dental implant as defined in claims 7 or 8, wherein said coronal end is adapted to accept an abutment extending coronally.
21. A dental implant abutment as defined in claim 20, wherein said abutment extends coronally with off axis angulation.
22. A dental implant abutment as defined in any of claims 1-6, or 19-21, wherein said abutment's restorative margin is contoured to be most coronal on the lingual, shortest on the buccal and of intermediate height on the mesial and distal.
23. A dental implant dental implant as defined in any of claims 1-6, or 19-21, wherein said abutment's restorative margin is contoured to be most coronal on the mesial and distal, shortest on the buccal and of intermediate height on the lingual.
24. A dental implant as defined in any of claims 1-6, or 19-21, wherein said abutment includes margins adapted to engage an impression cap.
25. A dental implant as defined in any of claims 1-8, wherein said coronal contour is straight.
26. A dental implant as defined in any of claims 1-8, wherein said coronal contour is convex.
27. A dental implant as defined in any of claims 1-8, wherein said coronal contour is scalloped.

28. A dental implant as defined in any of claims 1-8, wherein said coronally contoured surface is textured.

29. A dental implant as defined in any of claims 1-8, wherein said coronally contoured end has a machined collar of not more than 2.0 millimeter.

30. A dental implant as defined in any of claims 1-8, wherein said coronally contoured end has an etched collar of not more than 2.0 millimeter.

31. A dental implant as defined in any of claims 1-8, wherein said coronally contoured end has a polished collar of not more than 2.0 millimeter.

32. A dental implant as defined in any of claims 1-8, wherein said body narrows apically.

33. A dental implant as defined in any of claims 1-8, wherein said body has threads on the apical portion of said body.

34. A dental implant for implanting within the human jawbone, the jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end and a coronal end;

an abutment having a lower portion for connection with the coronal end of said body;

said outer surface of said body having a textured or otherwise prepared bone engaging surface such that it is prepared to be greatest in at least one dimension within the generally lingual

side and shortest on the generally buccal side; and

said body having collar extending 1.0 to 5.0 mm coronal to the textured or otherwise prepared bone engaging surface of said coronal end.

35. A dental implant for implanting within the human jawbone, the jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end and a coronal end;

an abutment having a lower portion for connection with the coronal end of said body;

said outer surface of said body having a textured or otherwise prepared bone engaging surface such that it is prepared to be greatest in at least one dimension within the generally lingual side, equally greatest in at least one dimension within the mesial and distal middle one third and shortest on the generally buccal side of said implant body; and

said body having collar extending 1.0 to 5.0 mm coronal to the textured or otherwise prepared bone engaging surface to said coronal end.

36. A dental implant having a generally lingual one third, a generally mesial and distal middle one third, and a generally buccal one third for implanting within the human jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end and a coronal end;

an abutment having a lower portion for connection with the coronal end of said body;

said outer surface of said body having a textured or otherwise prepared bone engaging surface



such that it is prepared to be greatest in at least one dimension within the generally lingual third and shortest on the generally buccal side; and

said body having collar extending 1.0 to 5.0 mm coronal to the textured or otherwise prepared bone engaging surface to said coronal end.

37. A dental implant having a generally lingual one third, a generally mesial and distal middle one third, and a generally buccal one third for implanting within the human jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end and a coronal end;

an abutment having a lower portion for connection with the coronal end of said body;  
said outer surface of said body having a textured or otherwise prepared bone engaging surface such that it is prepared to be greatest in at least one dimension within the generally lingual one third, equally greatest in at least one dimension within the mesial and distal middle one third and shortest on the generally buccal side of said implant body; and

said body having collar extending 1.0 to 5.0 mm coronal to the textured or otherwise prepared bone engaging surface to said coronal end.

38. A dental implant having a generally lingual one third, a generally mesial and distal middle one third, and a generally buccal one third for implanting within the human jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end and a coronal end;

said outer surface of said body having a textured or otherwise prepared bone engaging surface

such that it is prepared to be greatest in at least one dimension within the generally lingual one third and shortest on the generally buccal side; and

said body having collar extending 1.0 to 5.0 mm coronal to the textured or otherwise prepared bone engaging surface to said coronal end.

39. A dental implant having a generally lingual one third, a generally mesial and distal middle one third, and a generally buccal one third for implanting within the human jawbone having lingual and buccal sides, the implant comprising:

a generally cylindrical longitudinal body having an outer surface, an apical end and a coronal end;

said outer surface of said body having a textured or otherwise prepared bone engaging surface such that it is prepared to be greatest in at least one dimension within the generally lingual one third, equally greatest in at least one dimension within the mesial and distal middle one third and shortest on the generally buccal side of said implant body; and

said body having collar extending 1.0 to 5.0 mm coronal to the textured or otherwise prepared bone engaging surface to said coronal end.

40. A dental implant as defined in any of claims 34-39, wherein said coronal end is prepared to have a straight profile, perpendicular to the long axis of said implant body.

41. A dental implant as defined in any of claims 34-39, wherein said coronal end is contoured to have a convex profile.

42. A dental implant as defined in any of claims 34-39, wherein said coronal end is contoured to have a scalloped profile such that the overall length of the implant is shortest on the generally

buccal one third and intermediate in length on the generally lingual one third.

43. A dental implant as defined in any of claims 34-39, wherein said coronal end is contoured to be have a straight sloping profile that is shortest on the generally buccal one third and longest on the generally lingual one third.

44. A dental implant as defined in any of claims 34-39, wherein said body includes at least one size of grooves around at least a portion of said body.

45. A dental implant as defined in any of claims 34-39, wherein said body includes at least one size of ridges around at least a portion of said body.

46. A dental implant as defined in any of claims 34-39, wherein said body includes at least one size of threads around at least a portion of said body.

47. A dental implant as defined in claim 44, wherein said grooves are parallel with and generally adjacent to the coronal contour of the textured bone engaging surface.

48. A dental implant as defined in claim 45, wherein said ridges are parallel with and generally adjacent to the coronal contour of the textured bone engaging surface.

49. A dental implant as defined in claim 46, wherein said threads are parallel with and generally adjacent to the coronal contour of the textured bone engaging surface.

50. A dental implant as defined in claim 46, wherein said threads are perpendicular to the long

axis of the implant body of said coronal end.

51. A dental implant as defined in claims 46, 49 or 50, wherein said threads on said coronal part of the implant body generally adjacent to the coronal contour of the textured bone engaging surface have multiple leading starting points to allow synchronization with larger apical threads of said implant body.

52. A dental implant as defined in any of claims 34-37, wherein said implant abutment extends coronally with off axis angulation.

53. A dental implant as defined in claims 38 or 39, wherein said coronal end is adapted to accept an abutment extending coronally.

54. A dental implant as defined in claim 53, wherein said abutment extends coronally with off axis angulation.

55. A dental implant as defined in any of claims 34-37 or 52-54, wherein said abutment is designed to accept an impression cap.

56. A dental implant as defined in any of claims 34-39, wherein said coronally contoured margins of said implant body are designed to accept an impression cap.

57. A dental implant as defined in any of claims 34-39, wherein said body narrows apically.

58. A dental implant as defined in any of claims 34-39, wherein said body has threads on the

apical portion of said body.

59. A dental implant as defined in any of claims 34-39, wherein said body includes at least one size of grooves or threads around said diameter on at least a portion of said body.

60. A dental implant as defined in any of claims 1-8 or 34-39, wherein grit blasting, or other surface preparing treatment(s) designed to promote osseointegration is used to prepare all bone engaging surfaces.

61. A dental implant as defined in any of claims 1-8 or 34-39, wherein acid etching, or other surface preparing treatment(s) designed to promote osseointegration is used to prepare all bone engaging surfaces.

62. A dental implant as defined in any of claims 1-8 or 34-39, wherein laser etching, or other surface preparing treatment(s) designed to promote osseointegration is used to prepare all bone engaging surfaces.

63. A dental implant as defined in any of claims 1-8 or 34-39, wherein said coronal contour follows the Fibonacci Progression.